## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO.    | DATE   |  |  |  |  |  |
|---------------------------|----------|-----------|--------|--|--|--|--|--|
| FEE DETERMINATION         |          |           |        |  |  |  |  |  |
| O.I.P.E. CLASSIFIER       |          | <i>f-</i> | 7 (17) |  |  |  |  |  |
| FORMALITY REVIEW          |          | <u> </u>  |        |  |  |  |  |  |
| RESPONSE FORMALITY REVIEW |          |           | ·      |  |  |  |  |  |

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## INDEX OF CLAIMS

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
| - | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

|                | •                       |                   | -              |          | -   | - (          | Thr      | ough    | nun           | neral             | ) Can             | celed    | I               |           |           | Α        |          |          |         |     | · · · · · · · · · · · · · · · · · · · | . Apj         | eal  |          |                 |          |          |              |                 |
|----------------|-------------------------|-------------------|----------------|----------|---|--------------|----------|---------|---------------|-------------------|-------------------|----------|-----------------|-----------|-----------|----------|----------|----------|---------|-----|---------------------------------------|---------------|--|----------|-----------------|----------|----------|--------------|-----------------|
|                |                         |                   | •              |          | -   | ÷ .          | •••••    | •••••   |               | • • • • • • • • • | Res               | tricte   | ed              |           |           | 0        |          |          | •••••   |     |                                       | . Obj         | ected  |          |                 |          |          |              |                 |
|                | Clain                   |                   |                |          | <u> </u>  |              |          |         | . <u> </u>    | ٦.                | [                 | γ        |                 |           |           |          |          |          |         | _   |                                       |               |  |          |                 |          |          |              |                 |
| 0              | Lain                    | ्व '              | - <del>Q</del> | <u>a</u> | 0, 7, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | are<br>Si    | 7        | П       | $\overline{}$ | -                 | Claim             | -        |                 | _         | Da        | ate      |          | Т Т      |         | 4   | Cla                                   |               |  |          | C               | ate      |          |              |                 |
| t. 7.          | ڊ ا <sub>ھ</sub> ا      | ĘΫ.               | 3              | Ľ.       | 2 2   | 7            | 1        |         |               |                   | Final<br>Original |          | İ               |           | 1         | 1        |          |          |         |     | _                                     | Original      |  |          | -               |          |          |              |                 |
| 15             | Final                   | )<br> <br> -      | w.jc           | -        |   | 7            |          |         |               |                   | Pinal<br>Origir   | 11       |                 | 1         |           | ļ        |          |          | ı       | İ   | Final                                 | ē             |  |          |                 | İ        |          |              | i l             |
| ì              | T                       | 1)~[              | ا<br>ا         | 2 =      | =   =   | 1            |          | H       | $\top$        | 1                 | 51                | $\Box$   | +               | +         | $\dagger$ | H        |          |          | +-      | ┪   | 1                                     | 101           | ++   | $\dashv$ | +               | +-       | +-       | ╁            | ╆┼-             |
| 2              | 1                       | 2 /               | = [            | = =      | : =   | 1            |          |         |               |                   | 52                |          |                 | $\dagger$ | $\top$    | 1        |          |          | 十       | 1   |                                       | 102           | ++   | +        | +               | +        | ╁        | ├-           | ╁┼              |
| 2<br>3<br>4    | 1                       | 3 1               | 4              | ر -      | 1=  |              |          |         | $\Box$        | ]                 | 53                | П        |                 | Τ         |           |          |          |          | Ť       | 1   |                                       | 103           | ††   | +        | +               | +        | ╁╌       | <del> </del> | -               |
| 4              |                         | 1/                | 2 :            | -14      | $\sim$  | 1_           | 1        | 4       | $\bot$        |                   | 54                |          |                 | Ţ         | 匚         |          |          |          | I       | ]   |                                       | 104           | 11   | +        | +               | +        | $\top$   | $\vdash$     | +               |
| * \$           | <b>1</b>                | 5 4               | = :            | =   i    | 10  |              | $\vdash$ | 4       | _             | -                 | 55                | $\sqcup$ | $\perp$         | 1         | <u> </u>  | Ш        |          |          | $\perp$ |     |                                       | 105           |  |          | Ι               |          |          |              |                 |
| ž 7            |                         |                   |                | = 0      | 10  | }-           | ┢        | +       | -             | -                 | 56<br>57          | -+       |                 | +         | -         | -        |          | 4        | 4-      | -   |                                       | 106           | ++   | $\perp$  | $\perp$         | $\perp$  | L.       |              |                 |
| 29             | 18 8                    |                   |                | -   U    | *   | ┰            | $\vdash$ | +       | -             | 1                 | 58                | +        | +               | ╂         | ╀         | $\vdash$ |          | -        | +       | -   |                                       | 107           | 11   | _        | 4               | ╄        | ↓_       | L            | $\perp \perp$   |
| \$ 9           | 1                       |                   | 1              | -   =    | _   | <del>/</del> | Н        | $^{+}$  | +             | 1                 | 59                | +        | +               | ╁╌        | ╁         | -        | -        | -        | +       | -   | $\vdash$                              | 108           | +  | +        | -               | +        | ┼        |              | $\vdash \vdash$ |
| · 11           | 10 10                   |                   |                | = =      |   | <del>!</del> | П        | +       | -             |                   | 60                |          | +               | ╁         | +         | Н        |          | +        | +-      | -   |                                       | 109           | +  | +        | - -             | +        | ╄-       |              | ⊦∔              |
| 11             | J/ 1                    | 1//               | 니=             | = 1      | ٦,  | 1            | П        | 7       | $\top$        | 1                 | 61                | +        | †               | +         | $I^-$     | H        | $\dashv$ | +        | +-      | 1   |                                       | 111           | +i   | +        | +               | +-       |          | H            | Н-              |
| - 13           | 14 12                   | 17                | 7,             | =   ັບ   | ZV  | 1_           |          |         | I             |                   | 62                |          |                 |           | T         |          |          | $\top$   | 1       | 1   |                                       | 112           | † †  | +        | +               | ╁        | +        | Н            | -               |
| 13<br>14<br>15 | 13 1                    |                   |                | ·        | 0   | 8            | Ì        |         |               |                   | 63                |          |                 |           |           |          |          |          | T       | 1   |                                       | 113           | 11   |          | $\top$          | +        | 1-       | М            | $\vdash$        |
| . 15           |                         |                   | 12             | =   ٢    | <u>10</u>                                       | P            | $\vdash$ | $\perp$ | +             | 1                 | 64                | _        | $\bot$          | $\perp$   | <u> </u>  |          |          | -1       |         | ]   |                                       | 114           |  |          |                 | T        |          | П            | $\sqcap$        |
|                | 1                       |                   | +              | <u>-</u> | +   | -            | $\vdash$ | +       | +             |                   | 65                |          | +-              | ╄         | <u> </u>  |          | _        | _        |         |     |                                       | 115           | Ш  | I        | $\perp$         |          |          |              |                 |
|                |                         |                   |                | +        | +-  |              | $\vdash$ |         | +             | -                 | 66<br>67          | -        |                 | ╀         | $\vdash$  | $\vdash$ | -        | -        | -   -   | 1   | -                                     | 16            | $\sqcup$   |          | $\perp$         |          | L.       | Ш            |                 |
| 16             | 16 18                   | <del>  -</del>    |                | 2 1      | 1   | -            | Н        | +       | ╁             | 1                 | 68                | +        | +-              | ┼         | H         | $\vdash$ |          | -        | +-      | 1   |                                       | 17<br>118     | +-+  | -        | +               | ╄        | $\sqcup$ | $\sqcup$     |                 |
| ň              | 15 18<br>16 19<br>17 20 |                   |                | 2 6      | 0   |              |          | +       | +-            | 1                 | 69                | +-       | +               | ╁         | $\vdash$  | $\vdash$ | -        | +        | +       | 1   | -                                     | 19            | ++   |          | +-              | +        | <b>├</b> | ⊢┩           | -               |
| . 18           | 17 20                   |                   | = 2            |          | E   | ŧ            |          | +       | +-            | 1 1               | 70                | $\neg$   | ╁               | 1-        |           | $\vdash$ | $\dashv$ | $\dashv$ | +       | ┨   |                                       | 20            | ++   |          | +               | +-       | $\vdash$ | $\dashv$     | -               |
|                |                         | ¥ 10              | 5              | Ť        | -   | •            |          |         | ╁╌            | 1 1               | 71                | +        | ╁               | +-        |           |          | $\dashv$ | +        | +       | ┨   | -                                     | 21            | ╁┼   | +        | +               | +        | $\vdash$ | $\dashv$     |                 |
| 69             | 18 22<br>18 23<br>20 24 | C                 | : [ =          | ·V       | 10  |              |          | 7       | $\top$        | 1 1               | 72                |          | $\top$          | Ĺ         | Н         |          | $\dashv$ | +        | +-      | 1   |                                       | 22            | ╁┼   | +        | ╁               | ╁╴       |          | $\dashv$     | -               |
| .19            | 18 23                   |                   |                | ゠レ       | 10  |              |          |         |               |                   | 73                |          |                 |           |           |          |          | $\top$   | †       | ĺ   |                                       | 23            |  | ╁        | +               | +        | $\vdash$ | $\dashv$     |                 |
| J. 20          | 20 24                   | 1 6               | 12             |          | V   | Ш            |          | $\perp$ |               |                   | 74                | $\bot$   | L               |           |           |          |          | I        |         | ]   |                                       | 24            |  | $\top$   | +-              | †        |          | -            |                 |
| 72.3           | 7 25<br>26              |                   | -              | +        | V   | -            | -1       | 4       | 4             |                   | 75                | _        | 4_              | <u> </u>  |           | _        | _        | $\perp$  | L       | ]   |                                       | 25            |  |          |                 | 1        |          | T            |                 |
| M              | 27                      | $\vdash \vdash$   | ╁              | +        | ⊢   | $\vdash$     |          | +       | +             |                   | 76<br>77          |          | -               | <u> </u>  | $\vdash$  | -        | $\dashv$ | _        | ┶       | 1   | !                                     | 26            |  | $\perp$  | $\perp$         |          |          | $\Box$       |                 |
|                | 28                      | 1 +               | +-             | +        | -   | $\vdash$     | +        | +       | +             | 1                 | 78                |          | ╀               | -         | $\vdash$  | $\dashv$ | +        | +        | +       |     |                                       | 27            | 1  | ╀        | 4               | $\vdash$ |          | 4            | 4_              |
|                | 29                      |                   | +              | †-       | -   | $\vdash$     | $\dashv$ | -       | T             |                   | 79                | +        | +-              | -         | $\vdash$  | $\dashv$ | +        | +        | +-      |     |                                       | 28<br>29      | $\vdash$   | +-       | +-              | $\vdash$ | Н        |              |                 |
| 17             | 30                      |                   |                | 1-       | 1   |              |          | 1       | †             |                   | 80                | +        | +               |           |           | $\dashv$ | +        | ┿        | ╁╴      | ĺ   |                                       | 30            | <del>                                     </del> | +        | ╁               | -        | $\vdash$ | +            |                 |
| 4.4            | 31                      | П                 | I              |          |   |              |          | T       | $\sqcap$      |                   | 81                | ┪        | T               |           |           | $\dashv$ | $\top$   | $\top$   | +       |     |                                       | 31            |  | +-       | +               | $\vdash$ | $\dashv$ | +            | +-              |
|                | 32                      | LL:               |                | $\perp$  | $\Box$  |              |          | I       |               |                   | 82                |          |                 |           |           |          | 7        |          | †       | ĺ   |                                       | 32            |  | +        | +               | Н        |          | $\dashv$     |                 |
|                | 33<br>34                | -                 | +-             | $\perp$  | Ш   |              | -4       | ٠.      | $\sqcup$      |                   | 83                |          | $\perp$         |           |           |          | $\perp$  |          |         |     | _ i                                   | 33            |  | T        |                 |          |          | $\top$       | _               |
|                | 35                      | -                 | +              | ╁        | H   | -            | -+       | +       | ┦             | -                 | 84<br>85          | 4        | ↓_              | $\sqcup$  | 4         |          | 4        | 4        | 1_      |     |                                       | 34            |  |          |                 |          |          |              |                 |
| 47             | 36                      | <del>   -</del>   | +-             | ╁        | $\vdash$  | $\dashv$     | +        | +-      | Н             | H                 | 86                | +        | +-              | Н         | -         | -        | +        | +        | 1-      |     |                                       | 35            | $\vdash \vdash$                                  | $\perp$  | ↓               | Ш        | _        | 4            |                 |
| 15.<br>1 · · 1 | - 37                    | $\vdash$ $\vdash$ | +-             | +        | $\vdash$  | <del>-</del> | +        | +       | H             | ŀ                 | 87                | +        | ╁               | $\vdash$  | $\dashv$  | +        | +        | +        | -       |     |                                       | 36<br>37      |  | ╄        | ┼               | Ш        |          | +            |                 |
|                | 38                      |                   | $\top$         | 1        | $\vdash$  | 7            | 十        | +       | Н             | h                 | 88                | +        |                 |           | $\dashv$  | $\dashv$ |          | +        | ╁       |     |                                       | 38            | -  | +        | +-              | H        | $\dashv$ | +            |                 |
|                | 39                      | <u> </u>          |                |          | П   |              | _        | 1       | $\vdash$      | r                 | 89                | $\top$   | $\vdash$        | $\vdash$  | _         | +        | +        | +-       | Н       |     |                                       | 39            | -  | ╫        | +-              | $\vdash$ | $\dashv$ | ╬            | ╁               |
|                | 40                      |                   |                |          |   | $\Box$       | 1        | T       | П             | Ī                 | 90                |          | П               | T         | _         | 7        |          | _        | H       |     | -                                     | 10            | $\dashv$   | ╁~       | ╁               | $\vdash$ | $\dashv$ | +            | +               |
|                | 41                      | Į.                | ]_             |          |   | $\neg$       | T        |         | П             |                   | 91                |          |                 |           | ╛         | T        | 十        | $\top$   | $\Box$  |     | 1                                     |               | +  | 1-       | +-              | Н        | $\dashv$ | +            | $\dashv \dashv$ |
| · .            | . 42                    |                   | Ĭ.             |          |   | $\Box$       | I        | Ŀ       |               |                   | 92                |          |                 |           |           | _        | $\top$   | 1        | П       |     |                                       | 12            | $\vdash$   | +-       | $\vdash$        | $\vdash$ | $\dashv$ | +            | +               |
|                | 43                      |                   | 4_             | Ш        |   | $\dashv$     | 4        |         | Ш             |                   | 93                |          |                 |           |           |          |          |          |         |     | 14                                    | 13            |  | T        | П               |          | _        | +            | +-1             |
| .              | 44<br>45                |                   | ╁              | $\sqcup$ |   | 4            | $\perp$  | 4       | Ц             | L                 | 94                | 丄        | Ш               | $\perp$   | $\bot$    | $\perp$  | $\perp$  |          |         | - 1 | 14                                    |               |  |          |                 |          |          | $\top$       | $\top$          |
| }              | 45                      |                   | ┰              | $\vdash$ | _   | 4            | - -      | +       | H             | -                 | 95                | 4        | $\sqcup$        | _         | 4         | $\perp$  | 4        | <u> </u> | Ш       | [   | 14                                    | $\overline{}$ |  |          |                 |          |          | 工            | 口               |
| . }            | 47                      | $\dashv$          | +-             | H        | $\dashv$  | $\dashv$     | +        | +       | Н             | -                 | 96                | +-       | $\vdash \vdash$ | _         | +         | - -      | +        | 4        | Н       |     | 14                                    | _             |  | 1_       | $\Box$          | Ц.       | $\perp$  | $\perp$      |                 |
| . ∤            | 48                      | +-                | +              | $\vdash$ | $\dashv$  | $\dashv$     | +        | +       | H             | <br> -            | 98                | +-       | $\vdash \mid$   | $\dashv$  | -+        | +        | +        | +        | Н       | }   | 14                                    |               |  | ┼        | Щ               | $\perp$  | $\bot$   | $\downarrow$ | 44              |
| ı              | 49                      |                   | 1              | $\vdash$ | +   | +            |          | +       | H             | <br>              | 99                | ╁        |                 | -+        | +         | +        | +        | +        | H       | ŀ   | 14                                    | _             | - -  | $\vdash$ | $\vdash \vdash$ | -        | $\dashv$ | +            | $\dashv$        |
| Ī              | 50                      |                   |                |          | 丁   | ╧            | 土        | 上       |               |                   | 100               | $\top$   | $\vdash$        | +         | +         | +        | +        | +        | H       |     | 15                                    |               | +  | ├-       | $\vdash$        | $\dashv$ | +        | +            | +               |
|                | •                       |                   |                |          |   |              |          |         |               | _                 |                   |          |                 |           |           |          |          | ٠.       | لب      | L   |                                       | ٦ا            |  | _        | ш               |          |          | <u> </u>     | لب              |

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